



Dart Hawkesbury  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

5014072

646.4002  
Job Sheet 167643



Part No: 646.4002

Job Qty: 1 ea

Part Name: AS350 Wiper Deflector



Part Weight: 0 lbs

Status: Scheduled

Priority: High

Job Created: 11/3/17

Job Tracking No:

Due Date: 12/4/17

Created By: Victoria Michaud-Febrille

Type: SOLD

Description:

Customer: Airbus Cono Sur SA - EC Cono Sur (CEURO09)

Ruta 8 Brig. Gral. J.A. Lavalleja, Km 17500, Zonamerica Edificio 200 Local 208 Montevideo, , CP 91600  
Uruguay ph:00. 589 2518 2566 fx:00. 598 2518 2565.

Ship Via:

### Bill of Materials

### Job Routing

| Op No | Operation          | Qty   | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |           | Sign-off |
|-------|--------------------|-------|------------|----------|-----------|---------|-----------------------|-----------|----------|
|       |                    |       |            |          | Setup hrs | Run Hrs | Workcenter / Supplier | Lead Time |          |
| 90    | Start up Operation | 1 Ea  | 12/4/17    | 12/4/17  | 0.00      | 0.00    | Start Up Stores/Pkg1  |           |          |
| 110   | Packaging          | 1 pcs | 12/4/17    | 12/4/17  | 0.00      | 0.00    | Packaging1            |           |          |
| 120   | QC                 | 1 pcs | 12/4/17    | 12/4/17  | 0.00      | 0.00    | QC4                   |           |          |
| 125   | DC                 | 1 pcs | 12/4/17    | 12/4/17  | 0.00      | 0.00    | DC                    |           |          |
| 130   | Packaging          | 1 pcs | 12/4/17    | 12/4/17  | 0.00      | 0.00    | Packaging3            |           |          |
| 140   | QC21-FG            | 1 Ea  | 12/4/17    | 12/4/17  | 0.00      | 0.00    | QC21                  |           |          |

Part Op 125 - Photocopy bluefile & type labels per PPP 646.4002

Descriptions: 130 - Identify and pack for shipping as per PPP 646.4002 Location : FG102

### Job Allocations

| Operation             | Component Part        | Required | Inventory | Allocated | Std Qty |
|-----------------------|-----------------------|----------|-----------|-----------|---------|
| 90-Start up Operation | 600.1012 5013388      | 1        | 27        | 0         | 0       |
|                       | 646.3410 5013385      | 1        | 15        | 0         | 0       |
|                       | 646.3411 5013384      | 1        | 13        | 0         | 0       |
|                       | 646.3814 5013382      | 2        | 14        | 0         | 0       |
|                       | MS21042L3 5013380     | 6        | 1,109     | 0         | 0       |
|                       | MS24694-S53 5013377   | 2        | 237       | 0         | 0       |
|                       | MS27039-1-18 5013376  | 2        | 2,262     | 0         | 0       |
|                       | MS27039-1-19 5013375  | 2        | 390       | 0         | 0       |
|                       | NAS1149F0332P 5013371 | 16       | 2,930     | 0         | 0       |

### Part Specifications

Specifications could not be found.

Plex 11/3/17 3:28 PM dart.Michaud-Febrille.Victoria

**DART**  
AEROSPACE  
**S014072**



**AS350 Wiper Deflector**

**PART NO: 646.4002**  
**Revision:**  
**Operation: QC21 – FG**  
**Change No:**

**Dart Aerospace Ltd.**

1270 Aberdeen Street  
Hawkesbury, ON K64 1K7  
CANADA

TEL.: 1 613 632-5200

Email: [sales@dartaero.com](mailto:sales@dartaero.com)

[www.dartaerospace.com](http://www.dartaerospace.com)

**Mfg Date: 11/27/17**

**Job No: 167643**



REFERENCE ONLY

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NOTES:

1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.

2 INSTALL F/N 14 WITH F/N 52 & 53.

3 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE  
VENDOR: MCMASTER-CARR P/N 75935A651.

4 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE.  
VENDOR: R.S. HUGHES P/N 021200-24216.

5 REUSE FASTENERS FROM F/N 1.

6 USE WASHERS A/R AS SHIMS TO OBTAIN BEST FITMENT.

7 AT CUSTOMER'S OPTION, INSTALL F/N 65 BY MATCH DRILLING ON TO F/N 1.

8 INSTALL SHIM IF OEM PROVISIONS ARE INSTALLED ON AIRCRAFT. REMOVE SHIM LAYERS TO ACHIEVE CORRECT SIZE. MATCH DRILL HOLES. USE F/N 78 SCREW IN PLACE OF F/N 17 SCREW.

9 NEWER INSTALLATIONS ON AIRCRAFT WITH UPDATED CANOPY MAY REQUIRE DIFFERENT LENGTH SCREWS. USE F/N 62 TO REPLACE F/N 44 & F/N 26 IN PLACE OF F/N 41 WHEN NECESSARY.

UNINCORPORATED ECN(s)

05304

|      |      |      |      |          |                       |                 |        |             |      |       |
|------|------|------|------|----------|-----------------------|-----------------|--------|-------------|------|-------|
| 5    | 5    | 5    | 78   | 601.3875 | SCREW                 | MS27039-1-10    |        |             |      |       |
| 1    | 1    | 1    | 77   | 646.9410 | SHIM                  | MS27039-1-10    |        |             |      |       |
|      |      | 4    | 76   | 601.2764 | WASHER                | MS27039-1-10    |        |             |      |       |
|      |      | 2    | 75   | 601.2973 | LOCKNUT               | MS27042-08      |        |             |      |       |
|      |      | 2    | 74   | 601.2988 | SCREW                 | MS27039-0813    |        |             |      |       |
|      |      | 2    | 73   | 601.2943 | LOCKNUT               | MS27042-3       |        |             |      |       |
|      |      | 2    | 72   | 601.3128 | NUT                   | AN314C4R        |        |             |      |       |
|      |      | 2    | 71   | 601.3209 | LOCKNUT               | MS27042-4       |        |             |      |       |
|      |      | 4    | 70   | 601.2638 | WASHER                | MS27042-32P     |        |             |      |       |
|      |      | 2    | 69   | 601.2669 | BOLT                  | AN46C7A         |        |             |      |       |
|      |      | 2    | 68   | 601.3119 | CLEVIS                | AN46S-34R       |        |             |      |       |
|      |      | 2    | 67   | 601.3121 | EYE BOLT              | AN46-SA         |        |             |      |       |
|      |      | 2    | 66   | 650.9201 | EYE BRACKET ASSY      |                 |        |             |      |       |
|      | REF  | REF  | 65   | 647.5701 | GPS MOUNT KIT         | MS27039-1-10    |        |             |      |       |
|      |      |      | 64   | 601.3151 | WASHER                | MS27039-1-10    |        |             |      |       |
|      |      | 2    | 63   | 601.2911 | SCREW                 | MS27046S03      |        |             |      |       |
|      |      | 24   | 62   | 601.2637 | SCREW                 | MS27039-1-16    |        |             |      |       |
|      | 2    | 2    | 61   | 601.2763 | BOLT                  | AN3-12A         |        |             |      |       |
|      |      | 1    | 60   | 646.3913 | SHIM                  |                 |        |             |      |       |
|      |      | 4    | 59   | 646.3912 | SHIM                  |                 |        |             |      |       |
|      |      | 1    | 58   | 646.3911 | SHIM                  |                 |        |             |      |       |
|      |      | 4    | 57   | 646.3910 | SHIM                  |                 |        |             |      |       |
|      |      | 5    | 56   | 600.1013 | PRIMER                |                 |        |             |      |       |
|      | 8 FT | 8 FT | 55   | 600.0129 | VHB TAPE              |                 |        |             |      |       |
|      |      | 1    | 54   | 600.1012 | SEALANT               | PR-1426 C1A38 B |        |             |      |       |
|      |      | 1    | 53   | 600.0991 | MAGNEBOND 6378 PART B | MS27039-1-10    |        |             |      |       |
|      |      | 1    | 52   | 600.0990 | MAGNEBOND 6378 PART A | MS27039-1-10    |        |             |      |       |
|      | 6    | 10   | 51   | 601.2826 | BOLT                  | AN3-11A         |        |             |      |       |
|      |      | 2    | 50   | 646.3814 | WIPER BRACKET         |                 |        |             |      |       |
|      |      | 2    | 49   | 601.2910 | SCREW                 | MS27039-1-16    |        |             |      |       |
|      | 2    |      | 48   | 601.1365 | SCREW                 | MS27039-1-10    |        |             |      |       |
|      | 2    |      | 47   | 646.3719 | DOUBLER               |                 |        |             |      |       |
|      |      | 2    | 46   | 646.3718 | CUSTOM WASHER         |                 |        |             |      |       |
|      | 1    |      | 45   | 646.3717 | DOUBLER               |                 |        |             |      |       |
|      |      | 22   | 44   | 601.1948 | SCREW                 | MS27039-1-19    |        |             |      |       |
|      |      | 2    | 43   | 601.1952 | SCREW                 | MS27039-1-3C    |        |             |      |       |
|      |      | 4    | 42   | 601.1956 | SCREW                 | MS27039-1-21    |        |             |      |       |
| 4006 | 4005 | 4004 | 4003 | 4002     | 4001                  | FIND #          | PART # | DESCRIPTION | MATL | SPEC. |

| REV. | DESCRIPTION                                         | DATE       | APPROVED |
|------|-----------------------------------------------------|------------|----------|
| A    | INCORPORATED ECN 05304, 05305, 05306, 05307 & 05308 | 05/06/2010 | P. BRAVO |
| B    | INCORPORATED ECN 05309, 05310, 05311 & 05312        | 11/04/2014 | P. BRAVO |
| C    | INCORPORATED ECN 05313                              | 08/06/2015 | P. BRAVO |

|      |      |      |      |      |      |          |                                             |               |              |
|------|------|------|------|------|------|----------|---------------------------------------------|---------------|--------------|
|      |      | 2    |      | 2    | 41   | 601.2829 | SCREW                                       |               | MS24694554   |
|      |      | 2    |      | 2    | 40   | 601.2831 | RIVET                                       |               | MS20426ADS-7 |
|      |      | 1    |      | 1    | 39   | 646.3716 | GAUGE BRACKET                               |               |              |
|      |      | 6    |      | 6    | 38   | 601.1953 | SCREW                                       |               | MS27039-1-12 |
|      |      | 2    |      | 2    | 37   | 646.3715 | STRUT DOUBLER                               |               |              |
|      | 2    |      | 2    | 2    | 36   | 601.2824 | BOLT                                        |               | ANS-5A       |
| 12   | 36   |      |      | 36   | 35   | 601.2277 | RIVET                                       |               | OC95485-9-08 |
| 6    | 18   |      |      | 18   | 34   | 600.0795 | NUTPLATE                                    |               | MS27047-3    |
| 3    | 3    |      |      | 3    | 33   | 601.2565 | RIVET                                       |               | MS20470ADS-7 |
| 1    | 1    |      |      | 1    | 32   | 646.3813 | STRUT BRACKET                               |               |              |
| 4    | 4    |      |      | 4    | 31   | 601.2822 | BOLT                                        |               | ANS-3A       |
| 2    | 2    |      |      | 2    | 30   | 646.3812 | GUSSET BRACKET                              |               |              |
| 8    | 8    |      |      | 8    | 29   | 601.2564 | RIVET                                       |               | MS20470ADS-6 |
| 1    | 1    |      |      | 1    | 28   | 646.3714 | GUSSET                                      |               |              |
|      | 1    | 1    |      | 1    | 27   | 646.3610 | FILLER                                      |               |              |
|      | 3    | 3    |      | 3    | 26   | 601.2830 | SCREW                                       |               | MS24694555   |
|      | 2    | 2    |      | 2    | 25   | 601.2825 | BOLT                                        |               | ANS-6A       |
|      | 1    | 1    |      | 1    | 24   | 646.3811 | RADIUS BLOCK                                |               |              |
|      | 1    | 1    |      | 1    | 23   | 646.3712 | CLIP                                        |               |              |
|      | 1    | 1    |      | 1    | 22   | 646.3711 | CLIP                                        |               |              |
| 8    | 8    |      |      | 8    | 21   | 601.2832 | RIVET                                       |               | MS2470ADS-6  |
| 14   | 14   |      |      | 14   | 20   | 601.2020 | RIVET                                       |               | CR3215-3-3   |
| 4    | 6    | 4    | 6    | 10   | 19   | 601.2823 | BOLT                                        |               | ANS-4A       |
|      | 1    | 1    |      | 1    | 18   | 601.2827 | BOLT                                        |               | ANS-3A       |
|      | 5    | 5    |      | 5    | 17   | 601.2912 | SCREW                                       |               | MS24694551   |
| 1    | 1    |      |      | 1    | 16   | 646.3713 | GUSSET                                      |               |              |
| 1    | 1    |      |      | 1    | 15   | 646.3210 | SUPPORT                                     |               |              |
|      | 1    |      |      | 1    | 14   | 646.3710 | DOUBLER                                     |               |              |
|      | 1    | 1    |      | 1    | 13   | 646.3110 | CHANNEL                                     |               |              |
| 14   | 10   | 8    | 53   | 6    | 61   | 12       | 601.1624                                    | LOCKNUT       | MS27042-3    |
| 16   | 32   | 18   | 120  | 16   | 144  | 11       | 601.1607                                    | WASHER        | MS11490022P  |
|      |      |      |      |      | 10   | 646.3410 | LH WIPER DEFLECTOR                          |               |              |
|      |      |      |      |      | 9    | 646.3411 | RH WIPER DEFLECTOR                          |               |              |
|      |      |      |      | 2    | 2    | 8        | 647.7703                                    | STRUT ASSY    |              |
|      |      |      |      | 2    | 2    | 7        | 647.0112                                    | STRUT BRACKET |              |
|      |      |      |      | 1    | 1    | 6        | 646.3511                                    | STRUT         |              |
|      |      | 1    | 1    | 1    | 1    | 5        | 646.3510                                    | STRUT         |              |
| 2    |      | 2    |      | 2    | 4    | 646.3810 | BRACKET                                     |               |              |
|      |      |      |      | 1    | 3    | 646.2910 | DEFLECTOR                                   |               |              |
|      |      | 1    | 1    | 1    | 2    | 646.3001 | LOWER CUTTER ASSY                           |               |              |
|      |      |      |      | 1    | 1    | 646.3301 | UPPER CUTTER ASSY                           |               |              |
| X    |      |      |      |      |      | 646.4006 | LOWER CUTTER FIXED PROVISIONS               |               |              |
|      | X    |      |      |      |      | 646.4005 | LOWER CUTTER REMOVABLE PROVISIONS           |               |              |
|      |      | X    |      |      |      | 646.4004 | FIXED PROVISIONS KIT                        |               |              |
|      |      |      | X    |      |      | 646.4003 | CABLE CUTTERS KIT WITH/OUT FIXED PROVISIONS |               |              |
|      |      |      |      | X    |      | 646.4002 | AS350 WIPER DEFLECTOR KIT                   |               |              |
|      |      |      |      |      | X    | 646.4001 | AS350 CABLE CUTTERS KIT                     |               |              |
| 4006 | 4003 | 4004 | 4003 | 4002 | 4001 | FIND #   | DESCRIPTION                                 | MATL          | SPEC.        |

|               |  |                             |  |                         |  |                        |  |                              |  |                                                                                                      |  |
|---------------|--|-----------------------------|--|-------------------------|--|------------------------|--|------------------------------|--|------------------------------------------------------------------------------------------------------|--|
| NEXT ASSY (S) |  | ORIGINAL DATE<br>05/06/2010 |  | DESIGNED BY<br>P. BRAVO |  | CHECKED BY<br>P. BRAVO |  | DRAWING APPROVAL<br>P. BRAVO |  | UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>3 PLACE DECIMALS & 0.001<br>ANGLES & 3/16" |  |
| QTY           |  | PART #                      |  | DESCRIPTION             |  | MATL                   |  | SPEC.                        |  | PARTS LIST                                                                                           |  |
| 8             |  | 646.4000                    |  | AS350 CABLE CUTTERS KIT |  | B                      |  | 07M26                        |  | REV C                                                                                                |  |
| SCALE         |  | NONE                        |  | SHEET                   |  | 1 OF 3                 |  |                              |  |                                                                                                      |  |

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APCAL INDUSTRIES, INC.  
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